

N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through a corresponding sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal; and

N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to said plurality of pixels.--

--11. The driving circuit according to claim 10,

the N sampling switch, the N A/D converters, the N latches, and the N D/A converters being disposed on one substrate.--

--12. An electro-optical device comprising:

N number of data lines, where N is a natural number;

M number of scanning lines, where M is a natural number;

a plurality of pixels disposed correspondingly to intersections of the N data

lines and the M scanning lines;

N number of sampling switches;

N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through a corresponding sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal; and

N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to a corresponding data line of the N data lines.--

--13. An electronic apparatus comprising said electro-optical device according to claim 12 as a display device.--

--14. An electro-optical device, comprising:

N number of data lines, where N is a natural number;

M number of scanning lines, where M is a natural number;

a plurality of pixels disposed correspondingly to intersections of the N data lines and the M scanning lines;

N sampling switches;

N number of A/D converters, each of the N A/D converters converting a first analog signal that is supplied through a corresponding sampling switch of the N sampling switches into a digital signal;

N number of latches, each of the N latches storing said digital signal outputted by a corresponding A/D converter of the N A/D converters; and

*Cont.* N number of D/A converters, each of the N D/A converters converting said digital signal held in a corresponding latch of the N latches into a second analog signal to be supplied to a corresponding data line of the N data lines,

the N data lines, the M scanning lines, the plurality of pixels, the N sampling switches, the N A/D converters, the N latches, and the D/A converters being disposed on one substrate.--

--15. A driving circuit for driving a plurality of pixels, the driving circuit comprising:

a sampling circuit that samples and holds a first analog signal to be inputted in one horizontal scanning period;

an A/D conversion circuit that converts said first analog signal held in said sampling circuit into a digital signal;

a storage device that stores said digital signal; and

a D/A conversion circuit that converts said digital signal, which is stored in said storage device, into a second analog signal to be supplied to said plurality of pixels.--

--16. The driving circuit according to claim 15,

said sampling circuit, said A/D conversion circuit, said storage device, and said D/A conversion circuit being disposed on one substrate.--

--17. The driving circuit according to claim 15,

said A/D conversion circuit converting said first analog signal held in said sampling circuit into said digital signal within a time that is shorter than said one horizontal scanning period, said digital signal being stored in said storage device.--

--18. The driving circuit according to claim 15,

said storage device storing said digital signal obtained from said A/D conversion circuit within a fixed period, and

said D/A conversion circuit converting said digital signal stored in said storage device into said second analog signal to be supplied to the plurality of pixels.--

--19. The driving circuit according to claim 15, further comprising:

a path through which said digital signal is supplied from said A/D conversion circuit to said storage device; and

a path through which an external digital signal is supplied from an external circuit to said storage device.--

--20. The driving circuit according to claim 15,

said D/A conversion circuit generating said second analog signal obtained by performing nonlinear conversion of said digital signal.--

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cont.

--21. The driving circuit according to claim 16,  
said sampling circuit, said A/D conversion circuit, said storage device, said  
D/A conversion circuit, and said pixels comprising a plurality of thin film transistors formed  
on said substrate.--

--22. An electro-optical device comprising said driving circuit according to claim 15  
and a plurality of pixels driven by said driving circuit.--

--23. An electronic apparatus comprising said electro-optical device according to  
claim 22 as a display device.--

--24. A driving circuit for driving a plurality of pixels, the driving circuit  
comprising:  
an A/D conversion circuit that converts a first analog signal into a digital  
signal;

a storage device that stores said digital signal; and

a D/A conversion circuit that converts said digital signal, which is stored in  
said storage device, into a second analog signal to be supplied to said plurality of pixels,  
said A/D conversion circuit, said storage device, and said D/A conversion  
circuit being disposed on one substrate.--

--25. An electro-optical device comprising:  
an A/D conversion circuit that converts a first analog signal into a digital  
signal;

a storage device that stores said digital signal;

a D/A conversion circuit that converts said digital signal, which is stored in  
said storage device, into a second analog signal; and

a plurality of pixels to which said second analog signal is supplied from said  
D/A conversion circuit,